## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/560, 329Source: 1FWPDate Processed by STIC: 12/20/2005

## ENTERED



**IFWP** 

RAW SEQUENCE LISTING DATE: 12/20/2005
PATENT APPLICATION: US/10/560,329 TIME: 11:20:17

Input Set : A:\138\_Sequence Listing.ST25.txt
Output Set: N:\CRF4\12202005\J560329.raw

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3 <110> APPLICANT: KIM, Jung Moon
              KIM, Jung Kook
              KIM, Tae Han
             LEE, Jong Suk
      6
             YOOK, Jong In
      7
      9 <120> TITLE OF INVENTION: NON-ACTIVATED POLYPEPTIDES HAVING A FUNCTION OF TISSUE
              REGENERATION AND METHOD FOR PREPARING THE SAME
     12 <130> FILE REFERENCE: 4240-138
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/560,329
C--> 15 <141> CURRENT FILING DATE: 2005-12-10
     17 <150> PRIOR APPLICATION NUMBER: PCT/KR2005/003660
     18 <151> PRIOR FILING DATE: 2005-11-02
     20 <150> PRIOR APPLICATION NUMBER: KR10-2005-0026246
     21 <151> PRIOR FILING DATE: 2005-03-30
     23 <160> NUMBER OF SEQ ID NOS: 26
     25 <170> SOFTWARE: PatentIn version 3.3
     27 <210> SEQ ID NO: 1
     28 <211> LENGTH: 114
     29 <212> TYPE: PRT
     30 <213> ORGANISM: Homo sapiens
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     38 His Pro Leu Tyr Val Asp Phe Ser Asp Val Gly Trp Asn Asp Trp Ile
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     42 Val Ala Pro Pro Gly Tyr His Ala Phe Tyr Cys His Gly Glu Cys Pro
                                    40
     46 Phe Pro Leu Ala Asp His Leu Asn Ser Thr Asn His Ala Ile Val Gln
                                55
     50 Thr Leu Val Asn Ser Val Asn Ser Lys Ile Pro Lys Ala Cys Cys Val
                            70
                                                 75
     54 Pro Thr Glu Leu Ser Ala Ile Ser Met Leu Tyr Leu Asp Glu Asn Glu
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     62 Cys Arg
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     68 <212> TYPE: PRT
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     74 1
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Input Set : A:\138\_Sequence Listing.ST25.txt
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81 Lys Thr Leu Gln Ala Gln Ala Pro Glu Lys Ser Lys Asn Lys Lys Lys
85 Gln Arg Lys Gly Pro His Arg Lys Ser Gln Thr Leu Gln Phe Asp Glu
89 Gln Thr Leu Lys Lys Ala Arg Arg Lys Gln Trp Ile Glu Pro Arg Asn
93 Cys Ala Arg Arg Tyr Leu Lys Val Asp Phe Ala Asp Ile Gly Trp Ser
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97 Glu Trp Ile Ile Ser Pro Lys Ser Phe Asp Ala Tyr Tyr Cys Ser Gly
              100
                                   105
101 Ala Cys Gln Phe Pro Met Pro Lys Ser Leu Lys Pro Ser Asn His Ala
                                120
105 Thr Ile Gln Ser Ile Val Arg Ala Val Gly Val Val Pro Gly Ile Pro
                            135
109 Glu Pro Cys Cys Val Pro Glu Lys Met Ser Ser Leu Ser Ile Leu Phe
113 Phe Asp Glu Asn Lys Asn Val Val Leu Lys Val Tyr Pro Asn Met Thr
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132 Arg Arg His Ser Leu Tyr Val Asp Phe Ser Asp Val Gly Trp Asn Asp
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136 Trp Ile Val Ala Pro Pro Gly Tyr Gln Ala Phe Tyr Cys His Gly Asp
140 Cys Pro Phe Pro Leu Ala Asp His Leu Asn Ser Thr Asn His Ala Ile
                            55
144 Val Gln Thr Leu Val Asn Ser Val Asn Ser Ser Ile Pro Lys Ala Cys
148 Cys Val Pro Thr Glu Leu Ser Ala Ile Ser Met Leu Tyr Leu Asp Glu
                    85
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152 Tyr Asp Lys Val Val Leu Lys Asn Tyr Gln Glu Met Val Val Glu Gly
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156 Cys Gly Cys Arg
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160 <210> SEQ ID NO: 4
161 <211> LENGTH: 138-
162 <212> TYPE: PRT
163 <213> ORGANISM: Homo sapiens
165 <400> SEQUENCE: 4
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Input Set : A:\138\_Sequence Listing.ST25.txt
Output Set: N:\CRF4\12202005\J560329.raw

171   Gln Asp Ser Ser Arg Met Ser Ser Val Gly Asp Tyr Asn Thr Ser Glu   172   20	168	1				5					10					15	
172	171	Gln	Asp	Ser	Ser	Arq	Met	Ser	Ser	Val	Gly	Asp	Tyr	Asn	Thr	Ser	Glu
176			-			_					_	_	_				
176	175	Gln	Lys	Gln.	Ala	Cys	Lys	Lys	His	Glu	Leu	Tyr	Val	Ser	Phe	Arg	Asp
180			•			•	-	-				-				_	_
180	179	Leu	Gly	Trp	Gln	Asp	Trp	Ile	Ile	Ala	Pro	Glu	Gly	Tyr	Ala	Ala	Phe
183   Tyr Cys Asp Gly Glu Cys Ser Phe Pro   Leu Asn Ala His Met Asn Ala   184   65			_	-		•	-							-			
184   65		Tyr	Cys	Asp	Gly	Glu	Cys	Ser	Phe	Pro	Leu	Asn	Ala	His	Met	Asn	Ala
187   Thr Asn His Ala   Ile Val   Gln   Thr   Leu   Val   His   Leu   Met   Phe   Pro   Asp   188   85   90   95   91   91   His   Val   Pro   Lys   Pro   Cys   Cys   Ala   Pro   Thr   Lys   Leu   Asn   Ala   Ile   Ser   110		_	•	-	•		_				•						
188			Asn	His	Ala	Ile	Val	Gln	Thr	Leu	Val	His	Leu	Met	Phe	Pro	Asp
His Val Pro Lys Pro Cys Cys Ala Pro Thr Lys Leu Asn Ala Ile Ser 192																	-
195		His	Val	Pro	Lvs	Pro	Cvs	Cys	Ala	Pro	Thr	Lys	Leu	Asn	Ala	Ile	Ser
195							•	•				-					
196		Val	Leu	Tvr		Asp	qsA	Ser	Ser	Asn	Val	Ile	Leu	Lys	Lys	Tyr	Arq
199 Asn Met Val Val Arg Ser Cys Gly Cys His 200				_		•	_								•	•	
200		Asn	Met		Val	Ara	Ser	Cvs		Cvs	His						
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208 <400> SEQUENCE: 5 210 Ser Ala Ser Ser Arg Arg Arg Arg Gln Gln Ser Arg Asn Arg Ser Thr Gln 211 1						Homo	o sai	oiens	5								
Ser Ala Ser Ser Arg Arg Arg Arg Gln Gln Ser Arg Arg Arg Arg Gln Cln Ser Arg Asn Arg Ser Thr Gln Cln Cln Cln Cln Cln Cln Cln Cln Cln C																	
11							Arq	Arq	Gln	Gln	Ser	Arq	Asn	Arq	Ser	Thr	Gln
214 Ser Gln Asp Val Ala Arg Val Ser Ser Ala Ser Asp Tyr Asn Ser Ser 215						5	3	5									
215   20			Gln	Asp	Val	Ala	Arq	Val	Ser	Ser	Ala	Ser	Asp	Tyr	Asn	Ser	Ser
18   18   19   19   19   19   19   19													-	-			
219		Glu	Leu	Lys	Thr	Ala	Cys	Arq	Lys	His	Glu	Leu	Tyr	Val	Ser	Phe	Gln
222 Asp Leu Gly Trp Gln Asp Trp Ile Ile Ala Pro Lys Gly Tyr Ala Ala 223 50 50 65 65 66 60 60 60 60 60 60 60 60 60 60 60 60				_			•		_				-				
223	222	Asp	Leu	Gly	Trp	Gln	Asp	Trp	Ile	Ile	Ala	Pro	Lys	Gly	Tyr	Ala	Ala
227 65		-		-	-		-							_	_		
227 65	226	Asn	Tyr	Cys	Asp	Gly	Glu	Cys	Ser	Phe	Pro	Leu	Asn	Ala	His	Met	Asn
231			_	_	_	_		_									
234 Glu Tyr Val Pro Lys Pro Cys Cys Ala Pro Thr Lys Leu Asn Ala Ile 235	230	Ala	Thr	Asn	His	Ala	Ile	Val	Gln	Thr	Leu	Val	His	Leu	Met	Asn	Pro
235	231					85					90					95	
238 Ser Val Leu Tyr Phe Asp Asp Asp Ser Asn Val Ile Leu Lys Lys Tyr 239	234	Glu	Tyr	Val	Pro	Lys	Pro	Cys	Cys	Ala	Pro	Thr	Lys	Leu	Asn	Ala	Ile
239	235		_		100	_				105					110		
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253 Ser Thr Gly Ser Lys Gln Arg Ser Gln Asn Arg Ser Lys Thr Pro Lys 254 1 5 10 15 257 Asn Gln Glu Ala Leu Arg Met Ala Asn Val Ala Glu Asn Ser Ser Ser							•	-									
254 1 5 10 15 257 Asn Gln Glu Ala Leu Arg Met Ala Asn Val Ala Glu Asn Ser Ser Ser							Gln	Arq	Ser	Gln	Asn	Arg	Ser	Lys	Thr	Pro	Lys
257 Asn Gln Glu Ala Leu Arg Met Ala Asn Val Ala Glu Asn Ser Ser Ser				-				_						-			-
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261 Asp Gln Arg Gln Ala Cys Lys Lys His Glu Leu Tyr Val Ser Phe Arg
265 Asp Leu Gly Trp Gln Asp Trp Ile Ile Ala Pro Glu Gly Tyr Ala Ala
269 Tyr Tyr Cys Glu Gly Glu Cys Ala Phe Pro Leu Asn Ser Tyr Met Asn
273 Ala Thr Asn His Ala Ile Val Gln Thr Leu Val His Phe Ile Asn Pro
277 Glu Thr Val Pro Lys Pro Cys Cys Ala Pro Thr Gln Leu Asn Ala Ile
                                    105
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281 Ser Val Leu Tyr Phe Asp Asp Ser Ser Asn Val Ile Leu Lys Lys Tyr
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285 Arg Asn Met Val Val Arg Ala Cys Gly Gly His
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290 <211> LENGTH: 133
291 <212> TYPE: PRT
292 <213> ORGANISM: Homo sapiens
294 <400> SEQUENCE: 7
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300 Pro Gly Ile Phe Asp Asp Val His Gly Ser His Gly Arg Gln Val Cys
304 Arg Arg His Glu Leu Tyr Val Ser Phe Gln Asp Leu Gly Trp Leu Asp
            35
                                40
308 Trp Val Ile Ala Pro Gln Gly Tyr Ser Ala Tyr Tyr Cys Glu Gly Glu
                            55
312 Cys Ser Phe Pro Leu Asp Ser Cys Met Asn Ala Thr Asn His Ala Ile
                        70
                                            75
316 Leu Gln Ser Leu Val His Leu Met Met Pro Asp Ala Val Pro Lys Ala
                    85
320 Cys Cys Ala Pro Thr Lys Leu Ser Ala Thr Ser Val Leu Tyr Tyr Asp
                                 105
324 Ser Ser Asn Asn Val Ile Leu Arg Lys His Arg Asn Met Val Val Lys
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                                120
328 Ala Cys Gly Cys His
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332 <210> SEQ ID NO: 8
333 <211> LENGTH: 110
334 <212> TYPE: PRT
335 <213> ORGANISM: Homo sapiens
337 <400> SEQUENCE: 8
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343 Phe Glu Asp Ile Gly Trp Asp Ser Trp Ile Ile Ala Pro Lys Glu Tyr
347 Glu Ala Tyr Glu Cys Lys Gly Gly Cys Phe Phe Pro Leu Ala Asp Asp
351 Val Thr Pro Thr Lys His Ala Ile Val Gln Thr Leu Val His Leu Lys
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Input Set : A:\138\_Sequence Listing.ST25.txt
Output Set: N:\CRF4\12202005\J560329.raw

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355 Phe Pro Thr Lys Val Gly Lys Ala Cys Cys Val Pro Thr Lys Leu Ser
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359 Pro Ile Ser Val Leu Tyr Lys Asp Met Gly Val Pro Thr Leu Lys
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368 <211> LENGTH: 108
369 <212> TYPE: PRT
370 <213> ORGANISM: Homo sapiens
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                                    25
382 Ala Tyr Glu Cys Arg Gly Val Cys Asn Tyr Pro Leu Ala Glu His Leu
386 Thr Pro Thr Lys His Ala Ile Ile Gln Ala Leu Val His Leu Lys Asn
390 Ser Gln Lys Ala Ser Lys Ala Cys Cys Val Pro Thr Lys Leu Glu Pro
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417 Ala Tyr Glu Cys Arg Gly Val Cys Asn Tyr Pro Leu Ala Glu His Leu
418
421 Thr Pro Thr Lys His Ala Ile Ile Gln Ala Leu Val His Leu Lys Asn
                            55
425 Ser Gln Lys Ala Ser Lys Ala Cys Cys Val Pro Thr Lys Leu Glu Pro
429 Ile Ser Ile Leu Tyr Leu Asp Lys Gly Val Val Thr Tyr Lys Phe Lys
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439 <212> TYPE: PRT
440 <213> ORGANISM: Homo sapiens
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VERIFICATION SUMMARY

DATE: 12/20/2005

PATENT APPLICATION: US/10/560,329

TIME: 11:20:18

Input Set : A:\138\_Sequence Listing.ST25.txt
Output Set: N:\CRF4\12202005\J560329.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application Number L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date